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Course announcement

Practical biostatistics (1ECTS)

Prof. Massimiliano Tognolini (University of Parma)

February 4, 2025 - 8:30 - 10:30 February 6, 2025 - 8:30 - 10:30 February 11, 2025 - 8:30 - 10:30

Course language: English

Course description

Practical lessons on biomedical data analysis and interpretation. The course will include a prominent amount of exercise by means of Excel and Prism – GraphPad. The following topics are expected to be addressed

Descriptive statistics:

distributions, measures of central tendency, measures of dispersion, skewness

Data representation:

- bar plot, whisker plot, scatter plot, low-to-high

Inferential statistics

- population and sample
- comparing a sample with a population, a sample with a sample: t-test, p significance, type I and type II error.
- comparing 2 or more groups: One-way ANOVA, Two-way ANOVA
- simple regression and correlation
- non-parametric statics: χ² test

Good statistical practices in experimental design and their reporting Practical course.

The course is limited to 15 students

Please register before January 27, 2025 by sending an e-mail to Massimiliano.tognolini@unipr.it

1 di 2

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2 di 2